

Status of the M1A2 SEP Vulnerability IPT

(23-26 Jan 01, Fort Knox)

1. Mission:

Establish an IPT of key threat and M1A2 SEP SME's to conduct a comprehensive, holistic threat and vulnerability assessment of the SEP Tank, develop 4-star level briefing, and publish a threat and vulnerability assessment report for CG, TRADOC to support Army Transformation efforts. NLT 9 FEB 01.

2. Specified Tasks

- Conduct assessment of threats to M1A2 SEP
- Discuss threat's ability to countermeasure SEP
- Assess vulnerability of SEP to full range of threats
 - Analyze by "ilities"
 - Look at SAP Programs
- Produce written report w/ exec summary and 4-star



Its S: 9 Feb

3. Method:

- **Initial Threat Laydown:** 10-11 Jan 01, at the National Ground Intelligence Center. NGIC provided a series of threat information briefings that provide basis of threat update. Provides common background for use in the threat portion of the Threat and Vulnerability (T&V) Report and 4-star briefing.
- **Vulnerability IPT:** The threat information will also be used to assess the tank's vulnerabilities during the Vulnerability IPT, 23-26 Jan, at Fort Knox. Vulnerability IPT will feature various sub-panels to discuss the issues below:
 - Lethality
 - Soldier Fightability
 - Survivability (Ballistic)
 - Mobility/Transportability
 - Survivability (Non-Ballistic)
 - C4
 - Sustainability
- **Deliverables:**
 - The sub-panel deliverables are draft narratives for inclusion in the T&V report and recommended charts for the 4-star brief.
 - M1A2 SEP Threat and Vulnerability Assessment Report with Executive Summary S: 9 Feb 01
 - SEP T&V PowerPoint briefing for GEN Abrams S: 9 Feb 01
- **Integrated Product Team (IPT) Members:** IPT Members come from across the Army Armor, Combat Development and Intelligence communities. CIA and DIA are also participating. GEN (R) Saint is the Senior Advisor to the IPT.

4. M1A2 SEP Technical Vulnerabilities

Precision/highly lethal weapons

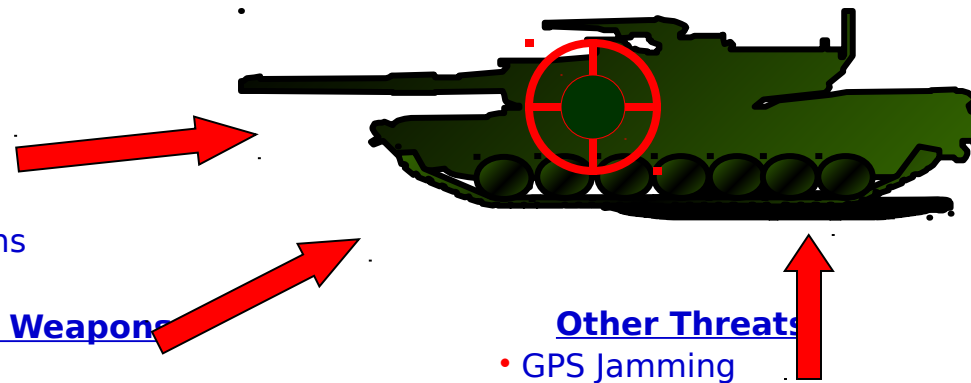
- Improved KE Munitions
- Air/Artillery delivered High Precision/Conventional Munitions
- DPICM/Terminally Guided Sub-Munitions
- IBM/SRBM
- ATGM/RPG
- Tandem HEAT
- Mines
- WMD/E
- NBC
- Thermobaric Weapons

Non-Lethal Weapons

- Lasers
- High Power Microwaves

Other Threats

- GPS Jamming
- Integrated EW Attack
- Physical Attack of C2
- Military Systemology



5. M1A2 SEP Non-Technical Vulnerabilities

Patterns of Operation

- Conventional, adaptive and asymmetric both offensive and defensive
- Dispersed, decentralized & distributed
- Control tempo and conflict environment
- Interdict APODs /SPODs
- Military Systemology

Purpose

- Exploit complex environments
- Preserve combat power while sapping the enemy's will and capability to fight
- Cause casualties
- Neutralize technological overmatch
- Deny access
- Avoid losing

Military Systemology



Attack the linkages between systems not the M1A2 SEP itself.

